

Please replace the paragraph beginning at page 1, line 4, with the following rewritten paragraph:

a 1 --The object of the present invention is directed to a method and device for dispersing pulp,
5 which method ground pulp mass is fed between the blade surfaces of a dispersing device that are brought in a rotating movement in relation to one another.--

On page 1, prior to line 10, please insert a new heading as follows:

--Background of the Invention--.

10 Please replace the paragraph beginning at page 1, line 10, with the following rewritten paragraph:

a 2 --Pulp is treated in a dispersing device where the impurities of the pulp are separated from
15 the fibers that are nevertheless not damaged in the treatment. This may be accomplished with the aid of mutually opposed blade equipped blade surfaces of the dispersing device where one blade surface along its base (stator) is fixed and the other blade surface along its base (rotor) is rotating in relation to the other blade surface. The blades and the narrow openings between them cause the pulp to move back and forth in the dispersing device, whereby separation of impurities from the fibers is accomplished. The purpose of dispersing is usually mechanical release of impurities from the fibers and simultaneously the grinding of impurities into smaller particles without nevertheless negatively affecting the properties of the
20 fibers.--

Please replace the paragraph beginning at page 1, line 22, with the following
rewritten paragraph:

a³
5 --A dispersing device is especially well suited for treatment of pulp mass containing waste paper that contains ink particles or impurities such as adhesives and melt or fusion coatings. A method and dispersing device intended to treat this kind of pulp is presented in Patent Publication SE 502906. In the publication there is presented a grinding element that consists of two mutually opposed grinding disks that are equipped with elevated indents. The inclined elevated patterns are arranged radially on the disks.--

10 Please replace the paragraph beginning at page 1, line 30, with the following
rewritten paragraph:

a⁴
15 --In addition to the planar dispersing devices even cone-shaped dispersing devices may be used. However, the problem with the conical dispersing devices is the small amount of mass transferring power allowed by them. Therefore when the pressure in the outlet chamber is high, that is, in the openings between the indents, the thrust is high, and adjusting the working faces becomes more difficult and the load of the dispersing device increases. The dispersing device may even become clogged, whereby the process is interrupted. This problem is avoided by using the inventive method.--

On page 2, prior to line 1, please insert a new heading as follows:

--Summary of the Invention--.

Please replace the paragraph beginning at page ~~2~~, line 18, with the following
rewritten paragraph:

5 --In the method according to the invention the function of the blade surfaces of the dispersing
device may be adjusted and regulated by decreasing the pressure in the outlet area of the
dispersing device, that is the outlet pressure of the device. The outlet pressure of the
dispersing device may be adjusted lower than the pressure in the outlet chamber of the
dispersing device by connecting a running wheel onto the rotor of the dispersed device. It is
possible to decrease the outlet pressure to such a low value that the pressure at the end of the
blade area is lower than in the beginning of the blade area, whereby suction is created
towards the end area, whereby problems arising due to the low transferring power of the
traditional cone-shaped dispersing device are avoided. When using the inventive method the
probability of clogging of the dispersing device is thus low. From the above it follows even
that when using the inventive method the blades of the working surfaces of the dispersing
device may be mounted at closer distances to one another, whereby the number of the blades
is increased, whereby the efficiency and productivity of the dispersing event are further
improved.--

Please replace the paragraph beginning at page ~~3~~, line 10, with the following
rewritten paragraph:

20 --The hydrostatic pressure for pumping of the pulp further to the next piping can be produced
with the dispersing device or with separate pumping equipment. Pumping in the outlet area
of the dispersing device is accomplished with the aid of a running wheel situated at the outlet

a⁶ end of the blade opening and of which there may be several in the device. In the method, dispersing and pumping are thus realized in separate parts of the device, whereby they do not interfere with each other.--

Please replace the paragraph beginning at page 3, line 17, with the following

5 rewritten paragraph:

a⁷
10 --In the method according to the invention, pulp may in addition be diluted at the outlet end of the blade opening with fluid introduced to the intake side of the running wheel. Thus the pulp may be diluted for the next process, if need be, without a separate work stage. In the outlet chamber mixing is sufficient to cause efficient dilution without a separate mixing means. The dilution fluid that may be pressurized or not, is introduced to the intake side of the running wheel through a feed channel of which there is at least one in the device.--

Please replace the paragraph beginning at page 3, line 35 through page 4, line 6, with the following rewritten paragraph:

a⁸
15 --As stated above, according to the invention a conical dispersing device is used as dispersing equipment, the advantage of which is a wide working area. Hereby the outer cone preferably acts as a stator and the inner cone preferably acts as a rotor, onto which is additionally fixed a running wheel. The running wheel is most suitably fixed onto the cone acting as a rotor such that it diverts the flow of mass away from the axis of the cone. The advantage of a conical dispersing device in regard to a planar dispersing device lies in that
20 the number of blades may be raised 50-150% in relation to a planar dispersing device,

a⁸ whereby the probability of the blade meeting an impurity increases considerably and the efficiency of the dispersing event is improved.--

Please replace the paragraph beginning at page 4, line 8, with the following rewritten paragraph:

5 --Further in addition to the above, the following advantages among others are realized by a
 a⁹ conical dispersing device: in dispersing impurities higher efficiency than with a planar
 dispersing device is realized if both are operated at the same energy level; breaking of pulp
 fibers is reduced because energy is distributed on a greater number of blades, whereby a
 higher energy level than with a planar dispersing device may be used without nevertheless
 10 damaging the fibers; the service life of the blades of the dispersing device is increased
 because the working surface area is larger and hence the relation energy/blade lower.--

On page 4, prior to line 35, please insert a new heading as follows:

--Brief Description of the Drawings--.

15 Please replace the paragraph beginning at page 5, line 1, with the following rewritten paragraph:

a¹⁰ --Fig. 1 is a partial longitudinal section of the dispersing device according to the invention,
 Fig. 2 presents a partial scheme of the structure and flow channels of the running wheel of
 the dispersing device presented in Fig. 1. Fig. 2 shows in addition the principle of the flow
 channels of the running wheel. The partial scheme is a cross section of the plane marked
 20 AA in Fig. 1, and

¹⁰
a Fig. 3 presents the structure of the blade surface of the dispersing device according to Fig.

1.--

On page ~~5~~, prior to line ~~9~~, please insert a new heading as follows:

¹¹
aM --Best Mode for Carrying Out the Invention--.

5 Please replace the paragraph beginning at page ~~5~~, line ~~35~~ through page 6, line 4, with the following rewritten paragraph:

¹²
a Fig. 2 presents a partial scheme of the structure of the running wheel 7 and of the flow channels 8 as well as the principle of the flow channels 8 of the running wheel. The partial scheme is a cross section of the plane marked AA in Fig. 1. The running wheel 7 has flow channels 8 that protrude axially outwards and are outlined by dashed lines 12. The flow of pulp 13 is away from the axis of the running wheel 7 in a direction opposite to the direction of rotation 14 of the running wheel 7. The running wheel 7 is mounted on the rotor in such a way that the direction of the flow of mass 13 changes in relation to the axis of the cone.--

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a Please replace the paragraph beginning at page ~~6~~, line 15, with the following rewritten paragraph:

--To a person skilled in the art it is obvious that the inventive method and the inventive device for dispersing pulp are not limited to the example presented above while they are based on the following claims.--